STANDARD 2

Students apply computation skills and data analysis techniques to make decisions and solve workplace problems.

READINESS (Kindergarten)

Students know and are able to do the following:

> *Note:The Readiness Level is central to preparation for the workplace and is adequately covered in the Mathematics Standards **document.***
> *The Proficiency and Distinction Levels include additional references to what students need to know and do as it relates to the workplace.*

- **2M-R1. Compare and sort objects by their physical attributes**

- **2M-R2. Collect, organize and describe simple data**

- **2M-R3. Construct concrete displays of data; read and interpret elementary tables, graphs and charts**

FOUNDATIONS (Grades 1-3)

Students know and are able to do all of the above and the following:

> *Note: The Foundations Level is central to preparation for the workplace and is adequately covered in the Mathematics Standards document. The Proficiency and Distinction Levels include additional references to what students need to know and do as it relates to the workplace.*

- **2M-F1. Collect and analyze data using the concepts of largest, smallest, almost often, least often and middle**

    PO 1. Collect and record data from surveys (e.g., favorite color or food, height, ages) or experiments
    PO 2. Organize (e.g., sorting, sequencing, tallying) information from surveys or experiments
    PO 3. Identify largest, smallest, most often recorded (i.e., mode), least often and middle (i.e., median) using sorted data
    PO 4. Formulate questions from organized data

ESSENTIALS (Grades 4-8)

Students know and are able to do all of the above and the following:

> Note: The Essentials Level is central to preparation for the workplace and is
> adequately covered in the Mathematics Standards document.
> The Proficiency and Distinction Levels include additional references to what students need
> to know and do as it relates to the workplace.

- **2WP-E1. Apply math standards 1-6 to a variety of workplace scenarios**

PROFICIENCY (Grades 9-12)

Students know and are able to do all of the above and the following:

- **2WP-P1. Select and use appropriate computation techniques (i.e., mental, paper and
  pencil, and technology) to solve problems and determine the accuracy of results**

    PO 1. Select appropriate computation techniques, such as averaging, estimation, statistical
    techniques, and appropriate electronic calculations
    PO 2. Apply selected technique to solve problems
    PO 3. Evaluate accuracy of results

- **2WP-P2. Construct projections and trends from raw data, charts, tables and graphs
  that summarize data from real-world situations**

    PO 1. Evaluate data from real-world situations
    PO 2. Construct projections and trends

DISTINCTION (Honors)

Students know and are able to do all of the above and the following:

- **2WP-D1. Analyze inferences from charts, tables and graphs that summarize data**

- **2WP-D2. Use appropriate technology to display and analyze workplace data**

- **2WP-D3. Evaluate data for interpretation and prediction**

- **2WP-D4. Test possible solutions using appropriate statistics**